RDT8	RE BUDGET ITEM JU	JSTIFIC	ATION	SHEET	(R-2 E)	(hibit)		DATE	Februa	ry 2000
BUDGET ACTIVITY <b>04 - Demonstration</b>			PE NUMBER <b>0603432</b>	ace)	PF					
COST (\$	COST (\$ in Thousands)			FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate		Total Cost
644052 Polar Satellite Communications 3		36,291	39,049	26,068	12,923	8,631	3,387	3,379	0	277,039
Quantity of RDT&I	Quantity of RDT&E Articles			0	0	1	1	0	0	:
Milstar program whi	ch followed the 1992 Milstar pro	gram restru			-	_	-	_	-	
cost-effective solution (JROC) validated the MILSATCOM programmer the Navy's UHF Foll Joint Space Manager	ch followed the 1992 Milstar pro on. In Oct 94, the DoD identified e Polar MILSATCOM ORD which ram and approved execution of the low On (UFO) system onto a class ment Board (JSMB) approved the (hosted) packages was launched	an immedia ch contained ne Interim Posified host se e DoD Space	cture which ate need for I the interim olar subset to satellite to pro-	deleted two protected po requirement o expeditious rovide limite option for F	polar orbitinolar communuts. In July 9 sly place a net requirement Polar MILSA	ng Milstar sa ications, and 5, the Defen nodified Ext ents satisfact ATCOM to s	tellites and of the self to th	directed the he Joint Req on Executive Frequency arsuing a longer	Air Force to uirements O e reviewed P (EHF) paylog term soluti	find a more versight Council colar and designed for on. In Aug 96, th
cost-effective solution (JROC) validated the MILSATCOM programmer the Navy's UHF Foll Joint Space Manager	on. In Oct 94, the DoD identified to Polar MILSATCOM ORD which are and approved execution of the low On (UFO) system onto a class ment Board (JSMB) approved the (hosted) packages was launched	an immedia ch contained the Interim Posified host se e DoD Space in Nov 97, t	cture which ate need for I the interim olar subset to satellite to pre Architect's the last two	deleted two protected po requirement o expeditious rovide limite option for P will launch is	polar orbiting polar communits. In July 9 sly place a new requirement Polar MILS An FY03 and	ng Milstar sa ications, and 5, the Defen nodified Ext ents satisfact ATCOM to s FY04.	tellites and of in Jul 95, the search of the	directed the he Joint Req on Executive on Frequency arsuing a lon ours-per-day	Air Force to uirements O e reviewed P (EHF) paylo g term soluti EHF Polar c	versight Council dolar and designed for on. In Aug 96, th apability. The
cost-effective solution (JROC) validated the MILSATCOM programmer the Navy's UHF Follows Joint Space Manager first of three interim (U) FY 1999 (\$ in Thous	on. In Oct 94, the DoD identified to Polar MILSATCOM ORD which are and approved execution of the low On (UFO) system onto a class ment Board (JSMB) approved the (hosted) packages was launched sands)  Continued parts buy and paylon.	an immedia ch contained the Interim Posified host se e DoD Space in Nov 97, t	cture which ate need for I the interim olar subset to satellite to pre Architect's the last two	deleted two protected po requirement o expeditious rovide limite option for P will launch is	polar orbiting polar communits. In July 9 sly place a new requirement Polar MILS An FY03 and	ng Milstar sa ications, and 5, the Defen nodified Ext ents satisfact ATCOM to s FY04.	tellites and of in Jul 95, the search of the	directed the he Joint Req on Executive on Frequency arsuing a lon ours-per-day	Air Force to uirements O e reviewed P (EHF) paylo g term soluti EHF Polar c	find a more versight Council volar and designed for on. In Aug 96, the apability. The
cost-effective solution (JROC) validated the MILSATCOM prograthe Navy's UHF Following Joint Space Manager first of three interim (U) FY 1999 (\$ in Thous (U) \$36,291	on. In Oct 94, the DoD identified to Polar MILSATCOM ORD which are and approved execution of the low On (UFO) system onto a class ment Board (JSMB) approved the (hosted) packages was launched sands)  Continued parts buy and paylo contract)  Total	an immedia ch contained ae Interim Po sified host s e DoD Space in Nov 97, t pad/integrati	cture which ate need for I the interim olar subset to satellite to pre e Architect's the last two	deleted two protected po requirement o expeditions rovide limite option for F will launch is	polar orbiting polar communits. In July 9 sly place a new polar MILS An FY03 and est vehicle for the polar which polar for the polar MILS An FY03 and the polar for the po	ng Milstar sa ications, and 5, the Defen nodified Ext ents satisfact ATCOM to s FY04.	tellites and of in Jul 95, the search of the	directed the he Joint Req on Executive a Frequency arsuing a longurs-per-day as 2 and 3. (1)	Air Force to uirements O e reviewed P (EHF) paylog term soluti EHF Polar c	find a more versight Council volar and designed for on. In Aug 96, th apability. The

Project 644052

(U) \$26,068

contract) Total

Exhibit R-2 (PE 0603432F)

	RDT&E BU	DGET ITE	M JUSTII	FICATION	N SHEET	(R-2 Exh	ibit)	Di	ATE <b>Februar</b>	y 2000
•	GET ACTIVITY  Demonstration and Va	alidation			PE NUMBER 0603432		ILSATCOM	(Space)		PROJECT <b>644052</b>
(U)	B. Budget Activity Justification The PolarMILSATCOM programmes solution (Interim Polar).		Activity 4, De	emonstration a	nd Validation,	based on a 30 l	Mar 95 USD(A	&T) memoran	dum to pursue the	e interim hosted
(U)	C. Program Change Summa	ry (\$ in Thousa	nds)							
(U) (U)	Previous President's Budget (F Appropriated Value					FY 1999 41,367 41,508	FY 2006 39,678 39,678	20	<u>2001</u> 6,300	<u>Total Cost</u> 278,360
(U)	Adjustments to Appropriated V a. Congressional/General Redu b. Small Business Innovative I	actions Research				-141	-1			
	c. Omnibus or Other Above Th	1 0	ram			4.050	-319	1		
	<ul><li>d. Below Threshold Reprograr</li><li>e. Rescissions</li><li>f. Other</li></ul>	n				-4,873 -203	-309	1		
(U)	Adjustments to Budget Years	Since FY 2000 P	PRR						-232	
(U)	Current Budget Submit/FY 20		DK			36,291	39,049	20	6,068	277,039
(U)	Significant Program Changes: (U) FY 99 and FY 01 adjustm	ents made to fur	nd higher prion	rity Air Force e	efforts. The to	tal program inc	creased due to a	n error on the	FY00 PB request.	
(U)	D. Other Program Funding S	<u>ummary (\$ in T</u> <u>FY 1999</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to	Total Cost
(U)	PE 0302109N Navy SATCOM Sub/Ship Terminals.	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U)	E. Acquisition Strategy The Air Force provides funds to office has total acquisition resp			ffice to modify	the host satell	lite system con	tract to include	the Polar EHF	F package. The ho	ost program
Р	roject 644052			Pag	ge 2 of 5 Pages	S			Exhibit R-2 (F	PE 0603432F)

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DAT	E Fel	bruary	2000	
	Demonstration and Validation  PE NUMBER AND TITLE  0603432F Polar MILSATCOM (Space							ce)		,	PRO		
(U)	F. Schedule Profile		FY	1999			FY 2	2000			FY 2	2001	
(U) (U)	Hosted Interim Payload #1 Launched (1QFY98) Preliminary Design Review Critical Design Review (Payloads 2 and 3 to launch in FYs 03 & 04)	1	2	3 *	4	1	2	3 X	4	1	2	3	4
F	Project 644052	Pag	ge 3 of 5 I	Pages						Exhibit	: R-2 (PI	E 06034	32F)

	RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									DATE <b>February 2000</b>			
	GET ACTIVITY  - Demonstration and '	Validation				ER AND TITLE  32F Polar	e)		PROJECT <b>644052</b>				
(U) (U) (U) (U) (U)	A. Project Cost Breakdown (\$ in Thousands)  Packages 2 & 3 Planning, Design, and Parts Buy Packages 2 & 3 Payload/Integration Development						36,	1999 0 ,291 ,291	FY 200 39,04 39,04	FY 2001 0 26,068 26,068			
(U)	B. Budget Acquisition History	ory and Plannin	ng Informatio	on (\$ in Thousa	ands)								
(U)	Performing Organizations: Contractor or Government Performing Activity Product Development Organ Classified Support and Management Or N/A Test and Evaluation Organization	Contract Method/Type or Funding Vehicle izations Classified rganizations	Award or Obligation Date June 95	Performing Activity EAC  Continuing	Project Office EAC Continuing	Total Prior to FY 1999 147,311	Budget FY 1999 36,291	Budget FY 2000 39,049	Budget FY 2001 26,068	Budget to Complete 28,320	Total Program 277,039		
(U)	Item Description Product Development Proper N/A Support and Management Pr N/A Test and Evaluation Property N/A	Contract Method/Type or Funding Vehicle rty operty	Award or Obligation Date	Delivery Date		Total Prior to FY 1999	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	<u>Total</u> <u>Program</u>		
Р	roject 644052			F	Page 4 of 5 Pag	ges			Exhib	it R-3 (PE 06	03432F)		

RDT&E PROGRAM ELEMENT	DATE FO	DATE February 2000						
BUDGET ACTIVITY  04 - Demonstration and Validation	PE NUMBER AND TITLE  0603432F Polar	PE NUMBER AND TITLE  0603432F Polar MILSATCOM (Space)						
	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	Budget to	<u>Total</u>		
Subtotals	to FY 1999	<u>FY 1999</u>	FY 2000	FY 2001	Complete	Program		
Subtotal Product Development	147,311	36,291	39,049	26,068	28,320	277,039		
Subtotal Support and Management								
Subtotal Test and Evaluation								
Total Project	147,311	36,291	39,049	26,068	28,320	277,039		
Project 644052	Page 5 of 5 Pages			Exhib	it R-3 (PE 06	603432F)		